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Please deliver to Examiner Huynh

For use in the telephone interview of Application No.: 09/381,032, scheduled for Thursday, October 3, 2:00 pm.

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- The substance detected in both the present invention and in Bergmann et al. is the TSH receptor auto antibody (i.e., TSHR-auto-Ab)
- The structure immobilized in the present invention is the TSH receptor (i.e., TSHR)
- The structure immobilized in Bergmann et al. is the antibody against the hormone (i.e., TSH-Ab)

Present Invention:

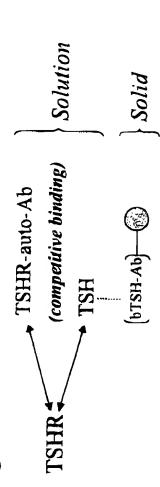
rhTSHR(imm)* = immobilized and purified recombinant human TSH Receptor, i.e.,

() (hTSHR-Ab) (rh-TSHR)

rbTSHR(imm)*

- Second step: Any rhTSHR(imm)* not bound to TSHR-auto-Ab binds to 1251-bTSH (labelled bovine TSH) • First step: rhTSHR(imm)* binds to TSHR-auto-Ab (TSH receptor auto antibody)
- The amount of TSHR-auto-Ab can be determined by subtracting bound 1251-bTSH (which can be quantified) from total amount of rhTSHR(imm)*
- The first and second steps can be conducted simultaneously.

Bergmann et al.:



Application Serial No: 09/381,032 Examiner: P.N. Huynh